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| 10/506,815      | 04/11/2005  | Arvind Ramaswamy     | 200601202-5         | 6801             |

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| EXAMINER |
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ALI, FARHAD

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2446

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ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

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|                              |                                      |   |  |
|------------------------------|--------------------------------------|---|--|
| <b>Office Action Summary</b> | <b>Application No.</b><br>10/506,815 | <b>Applicant(s)</b><br>RAMASWAMY ET AL. |  |
|                              | <b>Examiner</b><br>FARHAD ALI        | <b>Art Unit</b><br>2446                 |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 15 July 2008.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07 September 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### **Status of Claims:**

Claims 1-20 are pending in this Office Action.

### ***Specification***

1. The use of the trademark WINDOWS and ORACLE has been noted in this application. It should be capitalized wherever it appears and be accompanied by the generic terminology.

Although the use of trademarks is permissible in patent applications, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner which might adversely affect their validity as trademarks.

2. The abstract of the disclosure does not commence on a separate sheet in accordance with 37 CFR 1.52(b)(4). A new abstract of the disclosure is required and must be presented on a separate sheet, apart from any other text.

### ***Claim Rejections - 35 USC § 101***

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

The claimed invention is directed to non-statutory subject matter. Claim 1-4 and 19-20 may be interpreted as software per se. It claims a system and a means for without hardware embodiment. Examiner in view of the specification paragraph [0014] "The

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present invention is advantageous in that it is cost-effective and provides a software-only solution with centralized control for network-wide monitoring”, interprets it as software and not in a statutory category.

### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dauerer et al. (US 5,627,967 A) in view of Noy et al. (US 6,539,540 B1).

### **Claim 1**

Dauerer et al. teaches a data network management system for identifying unauthorized access to a data network service (**Column 5 Lines 36-47, “Only when no duplicate user identifications are detected, the invention checks for invalid user identifications. These invalid user identifications might come into existence when an authorization has been terminated in any one of several ways”**), provided at a service node in a data network, by a user node in said data network (**Column 3 Lines 1-4, “It is another object of the present invention to provide a control arrangement for a file access control system which will automatically monitor and**

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**update all lists of authorized users”)**, said service node having an agent and having means for maintaining a user access list, said user access list having at least one data network address corresponding to at least one user node in said data network **(Column 3 lines 41-45, “at least one list of the plurality of lists corresponding to each mini-disk”)**, said system comprising:

a database for maintaining an authorized access list for said service node **(Column 6 lines 14-18, “processed master list 36 and creates disk lists of users for each mini-disk contained in the master list and communicates these lists to the master file 12 where they are stored in files (e.g. L193, L198) corresponding to the associated mini-disk”)**; and

a data processing means for comparing said user access list to said authorized access list **(Column 7 line 55, “The new list is checked against the previous list at 306”)** and for updating said authorized access list, based on the user access list retrieved from said agent **(Column 7-8 lines 66-3, “Any differences between the old and new lists detected at 306 are then categorized as to the type of change at 308 and 312. If a user ID is on the old list but not the new list, a delete command is issued at 310 to the RACF controller 18 and the master file 12, illustrated collectively as 320 in FIG. 3”)**.

Dauerer et al. fails to teach a data communication means for periodically polling said agent at said service node and for retrieving a user access list from said agent.

However, Noy et al. teaches in Column 1 line 30, “an SNMP manager will periodically poll an agent 30” in order to detect changes in information for a particular network device (Column 1 lines 31-32).

It would have been obvious to one of ordinary skill in the art at the time of invention to create the invention of Dauerer et al. to include “an SNMP manager will periodically poll an agent 30” as taught by Noy in order to detect changes in information for a particular network device (Column 1 lines 31-32).

### **Claim 2**

The modified Dauerer teaches claim 1.

Dauerer et al. does not teach wherein said agent is a Simple Network Management Protocol agent

Noy et al teaches in Column 1 lines 62-63, “receiving a first response to the request from the SNMP agent” in order to detect changes in information for a particular network device (Column 1 lines 31-32).

It would have been obvious to one of ordinary skill in the art at the time of invention to create the invention of Dauerer et al. to include “receiving a first response to the request from the SNMP agent” as taught by Noy in order to detect changes in information for a particular network device (Column 1 lines 31-32).

**Claim 3**

The modified Dauerer teaches claim 1.

Dauerer et al. does not teach wherein said data communication means is a Simple Network Management Protocol communication

Noy et al teaches in Column 1 lines 47-49, "The present invention seeks to provide novel methods and apparatus for optimizing Simple Network Management Protocol (SNMP) requests" in order to provide a greater efficiency than is currently known in the art. (Column 1 lines 49-50).

It would have been obvious to one of ordinary skill in the art at the time of invention to create the invention of Dauerer et al. to include "novel methods and apparatus for optimizing Simple Network Management Protocol (SNMP) requests" as taught by Noy in order to detect changes in information for a particular network device (Column 1 lines 31-32).

**Claim 4**

The modified Dauerer teaches claim 1.

Dauerer et al. does not teach further including means for installing said agent at said service node, said agent having means to communicate with said data communication means.

Noy et al teaches in Column 1 lines 19-20, "SNMP includes two main elements: managers and agents" in order to provide for a manager to receive information from an agent (Column 1 lines 27-29).

It would have been obvious to one of ordinary skill in the art at the time of invention to create the invention of Dauerer et al. to include "two main elements: managers and agents" as taught by Noy in order to provide for a manager to receive information from an agent (Column 1 lines 27-29).

### **Claim 5**

Dauerer et al. teaches a method for identifying unauthorized access to a data network service **(Column 5 Lines 36-47, "Only when no duplicate user identifications are detected, the invention checks for invalid user identifications. These invalid user identifications might come into existence when an authorization has been terminated in any one of several ways")**, provided at a service node in a data network, by a user node in said data network **(Column 3 Lines 1-4, "It is another object of the present invention to provide a control arrangement for a file access control system which will automatically monitor and update all lists of authorized users")**, said service node having an agent and having means for



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maintaining a user access list, said user access list having at least one data network address corresponding to at least one user node in said data network (**Column 3 lines 41-45, “at least one list of the plurality of lists corresponding to each mini-disk” and Column 6 lines 14-18, “processed master list 36 and creates disk lists of users for each mini-disk contained in the master list and communicates these lists to the master file 12 where they are stored in files (e.g. L193, L198) corresponding to the associated mini-disk”**), said method comprising:

b) comparing said user access list to an authorized access list (**Column 7 line 55, “The new list is checked against the previous list at 306”**);

c) determining if an access to said service node was unauthorized based on comparing said user access list to the authorized access list; d) if said access was not authorized, initiating a notification process; wherein said user access list identifies a plurality of accesses to said service node (**Column 5 Lines 50-67, “The manner in which invalid user identifications are found is not particularly important to the practice of the invention but could be done, for example, by comparison of access authorization or password change dates, user ID invalidation lists, etc. or a plurality of such user data items. The important fact, from a practical point of view is that any suspected invalid user ID will be reported to the authorization administrator each time the master list is updated and resolution of all suspected invalid user ID's will be required before access is granted to the system.”**).

Dauerer et al. fails to teach a) periodically polling an agent and retrieving said user access list, for a given period of time, from said service node in said data network.

However, Noy et al. teaches in Column 1 line 30, “an SNMP manager will periodically poll an agent 30” in order to detect changes in information for a particular network device (Column 1 lines 31-32).

It would have been obvious to one of ordinary skill in the art at the time of invention to create the invention of Dauerer et al. to include “an SNMP manager will periodically poll an agent 30” as taught by Noy in order to detect changes in information for a particular network device (Column 1 lines 31-32).

#### **Claim 6**

The modified Dauerer et al. teaches the method as defined in claim 5, further including updating said authorized access list based on said user access list retrieved from said service node (Column 7-8 lines 66-3, “Any differences between the old and new lists detected at 306 are then categorized as to the type of change at 308 and 312. If a user ID is on the old list but not the new list, a delete command is issued at 310 to the RACF controller 18 and the master file 12, illustrated collectively as 320 in FIG. 3”).

#### **Claim 7**

The modified Dauerer teaches claim 5.

Dauerer et al. does not teach installing said agent at said user node, prior to periodically polling and retrieving said user access

Noy et al teaches in Column 1 lines 19-20, "SNMP includes two main elements: managers and agents" in order to provide for a manager to receive information from an agent (Column 1 lines 27-29).

It would have been obvious to one of ordinary skill in the art at the time of invention to create the invention of Dauerer et al. to include "two main elements: managers and agents" as taught by Noy in order to provide for a manager to receive information from an agent (Column 1 lines 27-29).

### **Claim 8**

The modified Dauerer et al. teaches the method as defined in claim 5, further including selecting said service node for identification based on a predetermined criteria, prior to retrieving said user access list **(Column 8 Lines 31-38, "Once the authorization administrator has edited the master list 26 and issued an immediate change command at 322, a check is made to determine if the disk lists involved are available and, as before, branches to end 326 under the error condition of the unavailability of the lists. If the appropriate lists are available, the disk lists are updated beginning at step 302, as described above")**.

**Claim 9**

The modified Dauerer et al. teaches the method as defined in claim 5, wherein said notification process comprises notifying a Network Operations Console (**Column 5 Lines 50-67, “The important fact, from a practical point of view is that any suspected invalid user ID will be reported to the authorization administrator each time the master list is updated and resolution of all suspected invalid user ID's will be required before access is granted to the system”**).

**Claim 10**

The modified Dauerer et al. teaches the method as defined in claim 5, wherein a) through c) are repeated, and wherein said user node is selected from one of a plurality of user nodes in said data network (**Column 5 lines 2-15, “Access to the system to update mini-disk access lists and an existing processed master list 36, reflecting the mini-disk access lists, to correspond to an updated master list 26 can be deferred until such time as access by a user is actually required. For instance, the updating of the master list within the system can be carried out on a regular schedule when user traffic is low and thus avoid conflicts with needs for the system by users”**).

**Claim 11**

The modified Dauerer et al. teaches the method as defined in claim 5, wherein a) through d) are repeated, and wherein said user node is selected from one of a plurality of user nodes in said data network (**Column 5 lines 2-15, “Access to the system to update mini-disk access lists and an existing processed master list 36, reflecting the mini-disk access lists, to correspond to an updated master list 26 can be deferred until such time as access by a user is actually required. For instance, the updating of the master list within the system can be carried out on a regular schedule when user traffic is low and thus avoid conflicts with needs for the system by users”**).

**Claim 12**

The modified Dauerer teaches claim 5.

Dauerer et al. does not teach wherein said agent is a Simple Network Management Protocol agent

Noy et al teaches in Column 1 lines 62-63, “receiving a first response to the request from the SNMP agent” in order to detect changes in information for a particular network device (Column 1 lines 31-32).

It would have been obvious to one of ordinary skill in the art at the time of invention to create the invention of Dauerer et al. to include “receiving a first response to

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the request from the SNMP agent” as taught by Noy in order to detect changes in information for a particular network device (Column 1 lines 31-32).

### **Claim 13**

Dauerer et al. teaches a computer-readable medium for identifying unauthorized access to a data network service (**Column 5 Lines 36-47, “Only when no duplicate user identifications are detected, the invention checks for invalid user identifications. These invalid user identifications might come into existence when an authorization has been terminated in any one of several ways”**), provided at a service node in a data network, by a user node in said data network (**Column 3 Lines 1-4, “It is another object of the present invention to provide a control arrangement for a file access control system which will automatically monitor and update all lists of authorized users”**), said service node having an agent and having means for maintaining a user access list, said user access list having at least one data network address corresponding to at least one user node in said data network (**Column 3 lines 41-45, “at least one list of the plurality of lists corresponding to each mini-disk” and Column 6 lines 14-18, “processed master list 36 and creates disk lists of users for each mini-disk contained in the master list and communicates these lists to the master file 12 where they are stored in files (e.g. L193, L198) corresponding to the associated mini-disk”**), and said medium having stored

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thereon, computer-readable and computer-executable instructions which, when executed by a processor, cause said processor to perform steps comprising:

b) comparing said user access list to an authorized access list (**Column 7 line 55, "The new list is checked against the previous list at 306"**);

c) determining if an access to said data network service was authorized based on said comparison step b); d) if determined that said access was unauthorized, initiating a notification process (**Column 5 Lines 50-67, "The manner in which invalid user identifications are found is not particularly important to the practice of the invention but could be done, for example, by comparison of access authorization or password change dates, user ID invalidation lists, etc. or a plurality of such user data items. The important fact, from a practical point of view is that any suspected invalid user ID will be reported to the authorization administrator each time the master list is updated and resolution of all suspected invalid user ID's will be required before access is granted to the system."**).

Dauerer et al. fails to teach a) periodically polling an agent and retrieving said user access list, for a given period of time, from said service node in said data network.

However, Noy et al. teaches in Column 1 line 30, "an SNMP manager will periodically poll an agent 30" in order to detect changes in information for a particular network device (Column 1 lines 31-32).

It would have been obvious to one of ordinary skill in the art at the time of invention to create the invention of Dauerer et al. to include “an SNMP manager will periodically poll an agent 30” as taught by Noy in order to detect changes in information for a particular network device (Column 1 lines 31-32).

#### **Claim 14**

The modified Dauerer et al. teaches the computer-readable medium as defined in claim 13, further containing computer-readable and computer-executable instructions which perform a step of updating said authorized access list based on user access information **(Column 7-8 lines 66-3, “Any differences between the old and new lists detected at 306 are then categorized as to the type of change at 308 and 312. If a user ID is on the old list but not the new list, a delete command is issued at 310 to the RACF controller 18 and the master file 12, illustrated collectively as 320 in FIG. 3”).**

#### **Claim 15**

The modified Dauerer teaches claim 13.

Dauerer et al. does not teach further containing computer-readable and computer-executable instructions which perform a step of installing said agent at said user node, prior to retrieving said user access list in step a).



Noy et al teaches in Column 1 lines 19-20, "SNMP includes two main elements: managers and agents" in order to provide for a manager to receive information from an agent (Column 1 lines 27-29).

It would have been obvious to one of ordinary skill in the art at the time of invention to create the invention of Dauerer et al. to include "two main elements: managers and agents" as taught by Noy in order to provide for a manager to receive information from an agent (Column 1 lines 27-29).

#### **Claim 16**

The modified Dauerer et al. teaches the computer-readable medium as defined in claim 13, further containing computer-readable and computer-executable instructions wherein said steps a) through c) are repeated, and wherein said user node is selected from one of a plurality of user nodes in said data network (**Column 5 lines 2-15, "Access to the system to update mini-disk access lists and an existing processed master list 36, reflecting the mini-disk access lists, to correspond to an updated master list 26 can be deferred until such time as access by a user is actually required. For instance, the updating of the master list within the system can be carried out on a regular schedule when user traffic is low and thus avoid conflicts with needs for the system by users")**).

**Claim 17**

The modified Dauerer teaches claim 13.

Dauerer et al. does not teach wherein said agent is a Simple Network Management Protocol agent

Noy et al teaches in Column 1 lines 62-63, "receiving a first response to the request from the SNMP agent" in order to detect changes in information for a particular network device (Column 1 lines 31-32).

It would have been obvious to one of ordinary skill in the art at the time of invention to create the invention of Dauerer et al. to include "receiving a first response to the request from the SNMP agent" as taught by Noy in order to detect changes in information for a particular network device (Column 1 lines 31-32).

**Claim 18**

Dauerer et al. teaches a computer for use in a data network for identifying unauthorized access to a data network service **(Column 5 Lines 36-47, "Only when no duplicate user identifications are detected, the invention checks for invalid user identifications. These invalid user identifications might come into existence when an authorization has been terminated in any one of several ways")**, provided at a service node in a data network, by a user node in said data network **(Column 3 Lines 1-4, "It is another object of the present invention to provide a control**

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**arrangement for a file access control system which will automatically monitor and update all lists of authorized users”)**, said service node having an agent and having means for maintaining a user access list, said user access list having at least one data network address corresponding to at least one user node in said data network, said computer comprising: means for storing an authorized access list for said service node **(Column 3 lines 41-45, “at least one list of the plurality of lists corresponding to each mini-disk” and Column 6 lines 14-18, “processed master list 36 and creates disk lists of users for each mini-disk contained in the master list and communicates these lists to the master file 12 where they are stored in files (e.g. L193, L198) corresponding to the associated mini-disk”);**

a central processing unit **(See Figure 1 #14, “CPU”)**.

data processing means for comparing said retrieved user access list to said authorized access list **(Column 7 line 55, “The new list is checked against the previous list at 306”)** and for updating said authorized access list based on the user access list retrieved from said agent **(Column 7-8 lines 66-3, “Any differences between the old and new lists detected at 306 are then categorized as to the type of change at 308 and 312. If a user ID is on the old list but not the new list, a delete command is issued at 310 to the RACF controller 18 and the master file 12, illustrated collectively as 320 in FIG. 3”)**.

Dauerer et al. fails to teach a data communication means for periodically polling said agent at said service node and for retrieving a user access list from said agent.

However, Noy et al. teaches in Column 1 line 30, “an SNMP manager will periodically poll an agent 30” in order to detect changes in information for a particular network device (Column 1 lines 31-32).

It would have been obvious to one of ordinary skill in the art at the time of invention to create the invention of Dauerer et al. to include “an SNMP manager will periodically poll an agent 30” as taught by Noy in order to detect changes in information for a particular network device (Column 1 lines 31-32).

### **Claim 19**

The modified Dauerer et al. teaches the data network as defined in claim 1, wherein said authorized access list is a common authorized user access list, that includes a range of user nodes for comparing to said user access list to determine if said user access list is a subset of said common authorization access list **(Column 3 lines 41-45, “at least one list of the plurality of lists corresponding to each mini-disk” and Column 6 lines 14-18, “processed master list 36 and creates disk lists of users for each mini-disk contained in the master list and communicates these lists to the master file 12 where they are stored in files (e.g. L193, L198) corresponding to the associated mini-disk”)**.

### **Claim 20**

The modified Dauerer Dauerer et al. teaches the data network management system of claim 1 wherein said user access list identifies a plurality of accesses to said service node **(Column 3 Lines 1-4, “It is another object of the present invention to provide a control arrangement for a file access control system which will automatically monitor and update all lists of authorized users” and See Fig. 4A).**

### ***Response to Arguments***

6. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FARHAD ALI whose telephone number is (571)270-1920. The examiner can normally be reached on Monday thru Friday, 7:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey C. Pwu can be reached on (571) 272-6798. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Farhad Ali/  
Examiner, Art Unit 2446

/Jeffrey Pwu/  
Supervisory Patent Examiner, Art Unit 2446